25X1A

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ACCEPTANCE TEST PROCEDURE
AND TEST DATA
FOR
MULTI-PURPOSE DATA BLOCK READER
PART NOS. 1164A1 AND 1164A2
SERIAL NO. *OO1*

TEST DATE _____   INSPECTOR _____

PROJECT 135

ACCEPTANCE TEST PROCEDURE

1   INITIAL SETUP

1.1   Turn power switch to "On" position. "Power On" light on Reader and "Local" switch on tape recorder should turn on.

1.2   Turn on Printer power. "Power On" light on Printer and "Printer Ready" light on the Reader should turn green.

1.3   Load tape on tape recorder. Slide vacuum column switch to slide position. See that the tape is sucked into the vacuum columns, and the "Write Enabled" indicator turns red. Press "Load Point" switch. The switch will light up, the tape will move to its initial position and stop. The "Load Point" indicator will then turn off. Depress "Auto" switch on tape recorder.

2   DATA ACCURACY CHECK

          This is a series of tests in which several rolls of test film will be read. The output of the Reader will be recorded on tape. That tape will be sent to a computer for a printout which will then be compared with a master printout which lists the actual data on the film. All discrepancies will be marked and considered data accuracy errors. The Engineering Department and the Customer will agree on a tolerable error rate.

2.1   Test Procedure Formats 12, 2, 9, 11, 2 and 1

2.1.1   Insure that the reading head is marked "Ratio 1:1".

2.1.2   "Excess Wander Override" switch should be lit. If not lit, depress the switch to light it.

2.1.3   "Inhibit Audible Alarm" switch should be lit. If not lit, depress to light it.

2.1.4   Follow test procedure for individual formats.

2.1.5   FORMAT *12 NEGATIVE*

2.1.5.1   Load film marked   *12 NEG.*

2.1.5.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*12*	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*NEGATIVE*	
Light Intensity	*60*	
Margin Indicator	*101*	*136 blocks*
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.5.3   Move film to its initial reading position.

2.1.5.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.5.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.5.6   Depress the "Partial Memory Record" switch.

2.1.5.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.5.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.5.9   Continue to next format.

2.1.6   FORMAT *12 NEGATIVE*

2.1.6.1   Load film marked   *12 NEG*

2.1.6.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*12*	
Forward/Reverse Switch	*FORWARD*	
Positive/Negative Switch	*NEGATIVE*	
Light Intensity	*60*	
Margin Indicator	*101*	*/36 blocks*
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.6.3   Move film to its initial reading position.

2.1.6.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.6.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.6.6   Depress the "Partial Memory Record" switch.

2.1.6.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.6.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.6.9   Continue to next format.

new added *leader*

2.1.7   FORMAT *2 NEGATIVE* - *Single Vertical*

2.1.7.1   Load film marked *2 NEG.*

2.1.7.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*2*	
Forward/Reverse Switch	*FORWARD*	
Positive/Negative Switch	*NEGATIVE*	*211 blocks*
Light Intensity	*60*	
Margin Indicator	*186*	
Skew Setting	Set	*missing blocks on film.*
Frame Counter Clear Switch	Clear	

2.1.7.3   Move film to its initial reading position.

2.1.7.4   Depress Start/Run button. The "Start" light will turn on ✓ immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.7.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.7.6   Depress the "Partial Memory Record" switch.

2.1.7.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.7.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.7.9   Continue to next format.

2.1.8   FORMAT *2 NEGATIVE*

2.1.8.1   Load film marked *2 NEG.*

2.1.8.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*2*	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*NEGATIVE*	
Light Intensity	*60*	
Margin Indicator	*186*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.8.3   Move film to its initial reading position.

2.1.8.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.8.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.8.6   Depress the "Partial Memory Record" switch.

2.1.8.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.8.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____
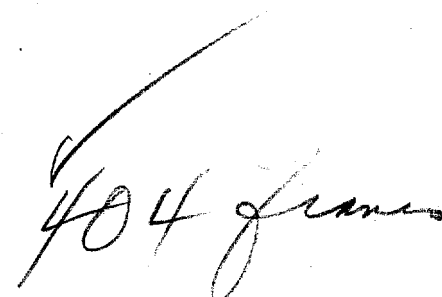
2.1.8.9   Continue to next format.

2.1,9   FORMAT 9 *NEGATIVE*   5" *horiz laydown*

2.1.9.1   Load film marked   9 NEG.

2.1.9.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	9	
Forward/Reverse Switch	REVERSE	
Positive/Negative Switch	NEGATIVE	
Light Intensity	65	404 frames
Margin Indicator	120	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.9.3   Move film to its initial reading position.

2.1.9.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.9.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.9.6   Depress the "Partial Memory Record" switch.

2.1.9.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.
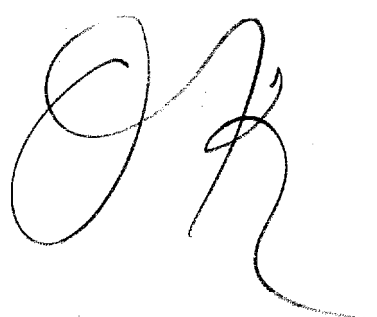
2.1.9.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.9.9   Continue to next format.

2.1.*10*   FORMAT *9 POSITIVE*

2.1.*10.*1   Load film marked *9 POS.*

2.1.*10.*2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*9*	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*POSITIVE*	
Light Intensity	*50*	*OK*
Margin Indicator	*140*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.*10.*3   Move film to its initial reading position.

2.1.*10.*4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.*10.*5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.*10.*6   Depress the "Partial Memory Record" switch.

2.1.*10.*7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.*10.*8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.*10.*9   Continue to next format.

2.1.*//*   FORMAT   *// POSITIVE*

2.1.*//*.1   Load film marked   *// POS.*

2.1.*//*.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*//*	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*POSITIVE*	
Light Intensity	*50*	✓
Margin Indicator	*80*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.*//*.3   Move film to its initial reading position.   ✓

2.1.*//*.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.*//*.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.*//*.6   Depress the "Partial Memory Record" switch.

2.1.*//*.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.*//*.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.*//*.9   Continue to next format.

2.1.*12*   FORMAT *2 POSITIVE*

2.1.*12*.1   Load film marked *2 POS.*

2.1.*12*.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*2*	
Forward/Reverse Switch	*FORWARD*	
Positive/Negative Switch	*POSITIVE*	✓
Light Intensity	*70*	
Margin Indicator	*226*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.*12*.3   Move film to its initial reading position.

2.1.*12*.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.*12*.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.*12*.6   Depress the "Partial Memory Record" switch.

2.1.*12*.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.
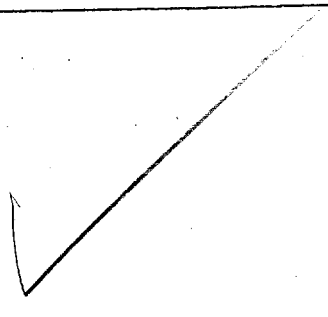
2.1.*12*.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.*12*.9   Continue to next format.

2.1.13   FORMAT / *NEGATIVE*

2.1.13.1   Load film marked   *1 NEG*

2.1.13.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*1*	
Forward/Reverse Switch	*FORWARD*	
Positive/Negative Switch	*NEGATIVE*	✓
Light Intensity	*55*	
Margin Indicator	*174*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.13.3   Move film to its initial reading position.

2.1.13.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.13.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.1.13.6   Depress the "Partial Memory Record" switch.

2.1.13.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.13.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.13.9   Continue to next format.

2.1.*14*   FORMAT   / *NEGATIVE*

2.1.*14.*1   Load film marked   / *NEG.*

2.1.*14.*2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	/	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*NEGATIVE*	
Light Intensity	*55*	✓
Margin Indicator	/ 74	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.1.*14.*3   Move film to its initial reading position.

2.1.*14.*4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.1.*14.*5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

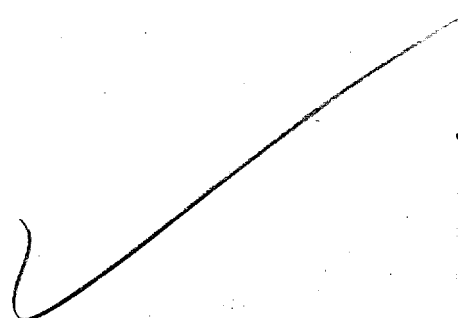2.1.*14.*6   Depress the "Partial Memory Record" switch.

2.1.*14.*7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.1.*14.*8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.1.*14.*9   Continue to next format.

2.1.15   Set thumbwheel switches to form the following sequence (right to left):
          1, 2, 3, 4, 5, 6, 7, 8, 9, 0, 1, 2, 3, 4, 5.

2.1.16   Depress the "WRITE PRESET DATA" Switch.

2.1.17   Depress "WRITE E. O. F." Switch twice.

2.1.18   Depress "LOCAL" Switch on tape recorder.

2.1.19   Depress "REWIND" Switch on tape recorder and wait till the tape stops.

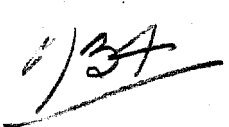2.1.20   Remove tape from tape recorder.

2.2   Test Procedure For Format 10

2.2.1   Turn power off.

2.2.2   Remove read head marked "Ratio 1:1".

2.2.3   Install read head marked "Ratio .56:1".

2.2.4   Turn power on.

2.2.5   Install a new reel of tape in the tape recorder and reiterate the procedure in 1:3.

2.2.6   Follow test procedure for individual film reels.

2.2.7   FORMAT *10 NEGATIVE*

2.2.7.1   Load film marked *10 NEG*

2.2.7.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*10*	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*NEGATIVE*	
Light Intensity	*60*	*1/34*
Margin Indicator	*352*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.2.7.3   Move film to its initial reading position.

2.2.7.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.2.7.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.2.7.6   Depress the "Partial Memory Record" switch.

2.2.7.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.2.7.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.2.7.9   Continue to next format.

2.2.8   FORMAT   /0 NEGATIVE

2.2.8.1   Load film marked   /0 NEG.

2.2.8.2   Perform each of initial settings in the following list, and put a
check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	/0	
Forward/Reverse Switch	FORWARD	
Positive/Negative Switch	NEGATIVE	
Light Intensity	60	✓
Margin Indicator	352	740 (734)
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.2.8.3   Move film to its initial reading position.

2.2.8.4   Depress Start/Run button.   The "Start" light will turn on
immediately.   The "Run" light will turn on when the start of film tab passes
under the Photosense Assembly.

2.2.8.5   Wait until the Reader completes reading the roll.   The Transport
will stop automatically.

2.2.8.6   Depress the "Partial Memory Record" switch.

2.2.8.7   Depress the Paper Advance switch on the Printer, remove the
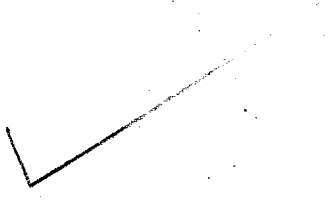list of error blocks and attach to this page.

2.2.8.8   If the "Tape Parity" indicator is on, indicate the type of error
in the space below (Lat. or Long.)   _____

2.2.8.9   Continue to next format.

2.2.9   FORMAT *10 POSITIVE*

2.2.9.1   Load film marked *10 POS.*

2.2.9.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*10*	
Forward/Reverse Switch	*FORWARD*	
Positive/Negative Switch	*POSITIVE*	
Light Intensity	*95*	
Margin Indicator	*352*	✓
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.2.9.3   Move film to its initial reading position.

2.2.9.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.2.9.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.2.9.6   Depress the "Partial Memory Record" switch.

2.2.9.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.2.9.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.2.9.9   Continue to next format.

2.2.10   FORMAT *10 POSITIVE*.

2.2.10.1   Load film marked *10 POS.*

2.2.10.2   Perform each of initial settings in the following list, and put a check mark in the right hand column when completed.

Element Description	Setting	Check When Set
Format Switch	*10*	
Forward/Reverse Switch	*REVERSE*	
Positive/Negative Switch	*POSITIVE*	
Light Intensity	*95*	
Margin Indicator	*352*	
Skew Setting	Set	
Frame Counter Clear Switch	Clear	

2.2.10.3   Move film to its initial reading position.

2.2.10.4   Depress Start/Run button. The "Start" light will turn on immediately. The "Run" light will turn on when the start of film tab passes under the Photosense Assembly.

2.2.10.5   Wait until the Reader completes reading the roll. The Transport will stop automatically.

2.2.10.6   Depress the "Partial Memory Record" switch.

2.2.10.7   Depress the Paper Advance switch on the Printer, remove the list of error blocks and attach to this page.

2.2.10.8   If the "Tape Parity" indicator is on, indicate the type of error in the space below (Lat. or Long.) _____

2.2.11   Depress "Write E.O.F." switch twice.

2.2.12   Rewind and remove tape reel.

3   OPERATIONAL CHECK

3.1   Load tape on tape recorder.

3.2   Load any film reel on Reader.

3.3   Check tape interlock as follows:

3.3.1   "Tape Recorder Ready" indicator should light red when the tape recorder panel shows any of the following conditions.

3.3.1.1   Tape recorder in "Local".

3.3.1.2   Tape recorder in "Auto" and "Rewind".

3.3.1.3   Tape recorder in "Auto" and "Low Density".

3.3.1.4   "Write Enabled" light on tape recorder panel is off.

3.3.2   When "Tape Recorder Ready" indicator is red, the "Start/Run", "Proceed", "Write Preset Data", "Partial Memory Record" and "Write E.O.F." switches are disabled.

3.3.3   When tape recorder is in "Auto" and "Write Enabled", the "Tape Recorder Ready" indicator should light in green and all Reader functions are enabled.

3.4   Check Printer interlocks as follows:

3.4.1   "Printer Ready" indicator lights red under the following conditions.

3.4.1.1   Power to Printer is Off.

3.4.1.2   "Print Inhibit" switch on Printer is on.

3.4.1.3   "Print Continuous" switch on Printer is on.

3.4.1.4   Printer if out of paper.

3.4.2   "Printer Ready" indicator lights green when power is on and none of the conditions listed in 3.4.1.2 through 3.4.1.4 exist.

3.4.3   The Reader remains functional even when Printer is not ready.

3.5   Audible alarm should sound in two to three short bursts under any of the following conditions:

3.5.1   When any error indicator goes on.

3.5.2   When the "End of Film" indicator goes on.

3.6   When "Excess Wander Override" indicator is off, the film should stop on an "Excess Wander - No Data" indication or on an "Excess Wander" only.